

WHAT IS CLAIMED IS:

1. An image pickup control apparatus for controlling an image pickup apparatus via a data communications interface unit, comprising:

5 storage means for storing control data for controlling the image pickup apparatus;

connection detecting means for detecting a connection to the image pickup apparatus via the data communications interface unit; and

10 transmission control means for transmitting the control data stored in said storage means to the image pickup apparatus when said connection detecting means detects a connection to the image pickup apparatus.

15 2. An image pickup control apparatus according to claim 1, wherein said storage means stores the control data for controlling a stop, a hue, a color density and a shutter speed.

20 3. An image pickup control apparatus according to claim 1, further comprising reception detecting means for detecting a control reception state of the image pickup apparatus, wherein said transmission control means transmits the control data stored in said storage  
25 means to the image pickup apparatus when said connection detecting means detects a connection to the image pickup apparatus and when said reception

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detecting means detects a control reception state of the image pickup apparatus.

4. An image pickup control apparatus according to  
5 claim 1, wherein the image pickup apparatus has storage means for storing the control data transmitted from said transmission control means as current control data.

10 5. An image pickup control apparatus according to claim 1, wherein said storage means stores the control data for each of a plurality of photographing conditions, the image pickup control apparatus further comprises guide means for guiding to select a desired  
15 photographing condition by displaying a plurality of photographing conditions stored in said storage means, wherein said transmission control means transmits the control data corresponding to the desired photographing condition selected by being guided by said guide means.

20 6. An image pickup control apparatus according to claim 5, wherein the photographing condition is based upon an environment and photographing state of a subject, the environment and photographing state  
25 including evening photographing, wedding reception photographing, closeup photographing, ski ground photographing, night scene photographing and other

photographing.

7. An image pickup control apparatus according to claim 5, further comprising display control means for displaying a model image corresponding to the control data for the desired photographing condition selected by being guided by said guide means.

8. An image pickup control apparatus according to  
10 claim 7, further comprising change means for changing  
the control data corresponding to the model image by  
referring to the model image displayed by said display  
control means, wherein said transmission control means  
transmits the control data changed by said change means  
15 to the image pickup apparatus.

9. An image pickup control apparatus according to claim 8, wherein said display control means displays the model image corresponding to the control data changed by said change means.

10. An image pickup control apparatus according to claim 8, further comprising rewrite means for changing the control data stored in said storage means to the control data changed by said change means.

11. An image pickup control apparatus according

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pickup apparatus to return the photographed image corresponding to the changed control data.

5 15. An image pickup control apparatus for a system in which an image pickup apparatus and a printer are connected via data communications interface units, the image pickup control apparatus comprising:

10 detecting means for detecting a print performance of the printer when a detection between the image pickup apparatus and the printer is detected; and

15 transmission control means for transmitting a photographed image from the image pickup apparatus to the printer, the photographed image having a definition corresponding to the printer performance detected by said detecting means.

20 16. An image pickup control apparatus according to claim 1, wherein the data communications interface unit is a general digital interface unit.

17. An image pickup control apparatus according to claim 15, wherein the data communications interface unit is a general digital interface unit.

25 18. An image pickup control apparatus according to claim 1, wherein the data communications interface unit conforms with an IEEE 1394 interface bus.

19. An image pickup control apparatus according to claim 15 wherein the data communications interface unit conforms with an IEEE 1394 interface bus.

5 20. An image pickup control method for controlling an image pickup apparatus via a data communications interface unit, comprising:

a storage step of storing control data for controlling the image pickup apparatus;

10 a connection detecting step of detecting a connection to the image pickup apparatus via the data communications interface unit; and

15 a transmission control step of transmitting the control data stored at said storage step to the image pickup apparatus when said connection detecting step detects a connection to the image pickup apparatus.

21. An image pickup control method according to claim 20, wherein said storage step stores the control data for controlling a stop, a hue, a color density and a shutter speed.

22. An image pickup method apparatus according to claim 20, further comprising a reception detecting step of detecting a control reception state of the image pickup apparatus, wherein said transmission control step transmits the control data stored at said storage

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step to the image pickup apparatus when said connection  
detecting step detects a connection to the image pickup  
apparatus and when said reception detecting step  
detects a control reception state of the image pickup  
5 apparatus.

23. An image pickup control method according to  
claim 20, wherein the image pickup apparatus has a  
storage step of storing the control data transmitted at  
10 said transmission control step as current control data.

24. An image pickup control method according to  
claim 20, wherein said storage step stores the control  
data for each of a plurality of photographing  
15 conditions, the image pickup control apparatus further  
comprises a guide step of guiding to select a desired  
photographing condition by displaying a plurality of  
photographing conditions stored at said storage step,  
and said transmission control step transmits the  
20 control data corresponding to the desired photographing  
condition selected by being guided at said guide step.

25. An image pickup control method according to  
claim 24, wherein the photographing condition is based  
25 upon an environment and photographing state of a  
subject, the environment and photographing state  
including evening photographing, wedding reception

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photographing, closeup photographing, ski ground photographing, night scene photographing and other photographing.

5           26. An image pickup control method according to claim 24, further comprising a display control step of displaying a model image corresponding to the control data for the desired photographing condition selected by being guided by said guide step.

10           27. An image pickup control method according to claim 26, further comprising a change step of changing the control data corresponding to the model image by referring to the model image displayed at said display control step, wherein said transmission control step  
15           transmits the control data changed at said change step to the image pickup apparatus.

20           28. An image pickup control method according to claim 27, wherein said display control step displays the model image corresponding to the control data changed at said change step.

25           29. An image pickup control method according to claim 27, further comprising a rewrite step of changing the control data stored at said storage step to the control data changed at said change step.



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pickup apparatus to return the photographed image corresponding to the changed control data.

5 34. An image pickup control method for a system in which an image pickup apparatus and a printer are connected via data communications interface units, the image pickup control method comprising:

10 a detecting step of detecting a print performance of the printer when a detection between the image pickup apparatus and the printer is detected; and

15 a transmission control step of transmitting a photographed image from the image pickup apparatus to the printer, the photographed image having a definition corresponding to the printer performance detected at said detecting step.

20 35. An image pickup control method according to claim 20, wherein the data communications interface unit is a general digital interface unit.

36. An image pickup control method according to claim 34, wherein the data communications interface unit is a general digital interface unit.

25 37. An image pickup control method according to claim 20, wherein the data communications interface unit conforms with an IEEE 1394 interface bus.

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means to the image pickup apparatus when said  
connection detecting means detects a connection to the  
image pickup apparatus and when said reception  
detecting means detects a control reception state of  
5 the image pickup apparatus.

42. An image pickup control system according to  
claim 39, wherein the image pickup apparatus has  
storage means for storing the control data transmitted  
10 from said transmission control means as current control  
data.

43. An image pickup control system according to  
claim 39, wherein said storage means stores the control  
15 data for each of a plurality of photographing  
conditions, the image pickup control apparatus further  
comprises guide means for guiding to select a desired  
photographing condition by displaying a plurality of  
photographing conditions stored in said storage means,  
20 and said transmission control means transmits the  
control data corresponding to the desired photographing  
condition selected by being guided by said guide means.

44. An image pickup control system according to  
25 claim 43, wherein the photographing condition is based  
upon an environment and photographing state of a  
subject, the environment and photographing state

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pickup apparatus and the printer is detected; and

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5            57. An image pickup control system according to  
claim 53, wherein the data communications interface  
unit conforms with an IEEE 1394 interface bus.

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        a storage routine of storing control data for
controlling the image pickup apparatus;

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a transmission control routine of transmitting the control data stored at said storage routine to the image pickup apparatus when said connection detecting routine detects a connection to the image pickup apparatus.

59. A storage medium according to claim 58,  
wherein said storage routine stores the control data  
for controlling a stop, a hue, a color density and a  
shutter speed.



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63. A storage medium according to claim 62,  
wherein the photographing condition is based upon an  
environment and photographing state of a subject, the  
environment and photographing state including evening  
5 photographing, wedding reception photographing, closeup  
photographing, ski ground photographing, night scene  
photographing and other photographing.

64. A storage medium according to claim 62,  
10 further comprising a display control routine of  
displaying a model image corresponding to the control  
data for the desired photographing condition selected  
by being guided by said guide routine.

65. A storage medium according to claim 64,  
15 further comprising a change routine of changing the  
control data corresponding to the model image by  
referring to the model image displayed at said display  
control routine, wherein said transmission control  
20 routine transmits the control data changed at said  
change routine to the image pickup apparatus.

66. A storage medium according to claim 65,  
wherein said display control routine displays the model  
25 image corresponding to the control data changed at said  
change routine.

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71. A storage medium according to claim 65,  
wherein said return instruction routine transmits the  
control data changed at said change routine and  
transmitted at said transmission control routine to the  
5 image pickup apparatus and instructs the image pickup  
apparatus to return the photographed image  
corresponding to the changed control data.

72. A storage medium storing a control program  
10 for controlling an image pickup apparatus in which the  
image pickup apparatus and a printer are connected via  
data communications interface units, the control  
program comprising:

a detecting routine of detecting a print  
15 performance of the printer when a detection between the  
image pickup apparatus and the printer is detected; and

a transmission control routine of transmitting a  
photographed image from the image pickup apparatus to  
the printer, the photographed image having a definition  
20 corresponding to the printer performance detected at  
said detecting routine.

73. A storage medium according to claim 58,  
wherein the data communications interface unit is a  
25 general digital interface unit.

74. A storage medium according to claim 72,

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wherein the data communications interface unit is a general digital interface unit.

75. A storage medium according to claim 58,  
5 wherein the data communications interface unit conforms  
with an IEEE 1394 interface bus.

76. A storage medium according to claim 72,  
wherein the data communications interface unit conforms  
10 with an IEEE 1394 interface bus.

77. An image pickup control apparatus for controlling an image pickup apparatus via a data communications interface unit, comprising:

15 storage means for storing a plurality set of control data corresponding to a plurality of photographing modes, the control data controlling the image pickup apparatus;

connection detecting means for detecting a  
20 connection of the image pickup apparatus via the data  
communication interface unit; and

transmission control means for transmitting the control data stored in said storage means to the image pickup apparatus when a connection to the image pickup apparatus is detected by said connection detecting means and if it is judged that the image pickup apparatus is in a controllable state.

78. An image pickup control apparatus according to claim 77, wherein said storage means stores the control data corresponding to the photographing mode for controlling a stop, a hue, a color density and a shutter speed.

79. An image pickup control apparatus according to claim 77, further comprising control means for controlling to allow the control data to control the image pickup apparatus when the image pickup apparatus is in a manual setting mode, wherein said transmission control means transmits the control data stored in said storage means to the image pickup apparatus when said connection detecting means detects a connection to the image pickup apparatus and when the image pickup apparatus is controllable.

80. An image pickup control apparatus according to claim 77, wherein the photographing mode is based upon an environment and photographing state of a subject, the environment and photographing state including evening photographing, wedding reception photographing, closeup photographing, ski ground photographing, night scene photographing and other photographing.

81. An image pickup control apparatus according

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to claim 79, wherein said control means further  
comprises display control means for displaying a model  
image corresponding to the control data for a selected  
photographing mode, when the control data is set in  
5 accordance with the photographing mode.

82 An image pickup control apparatus according to  
claim 81, further comprising change means for changing  
the control data corresponding to the model image by  
10 referring to the model image displayed by said display  
control means, wherein said transmission control means  
transmits the control data changed by said change means  
to the image pickup apparatus.

15 83. An image pickup control apparatus according  
to claim 82, wherein said display control means  
displays the model image corresponding to the control  
data changed by said change means.